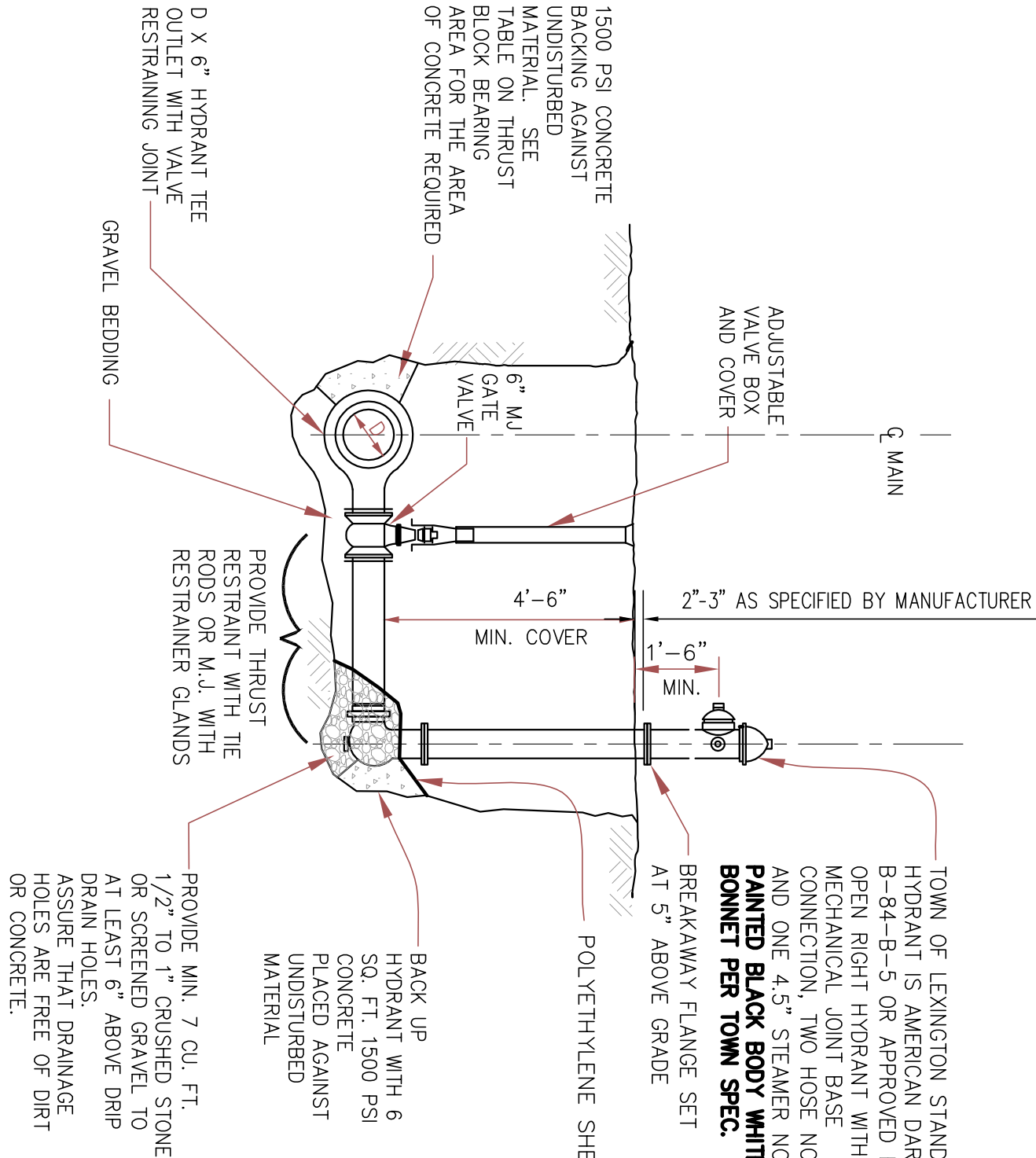


1. A 10' HORIZONTAL SEPARATION MUST BE MAINTAINED FROM THE SEWER SERVICE UNLESS OTHERWISE AUTHORIZED BY THE ENGINEERING DIVISION.
2. FOR SERVICE RENEWALS, TUBING SHALL BE REPLACED TO THE PROPERTY LINE UNLESS OTHERWISE AUTHORIZED BY THE ENGINEERING DIVISION.
3. WHERE AN EXISTING SERVICE IS BEING REPLACED TO THE MAIN, THE OLD SERVICE SHALL BE CAPED AT THE CORPORATION.
4. THE WATER AND SEWER DIVISION MUST BE NOTIFIED IF LEAD SERVICES ARE ENCOUNTERED.
5. SERVICE TAPS SHALL BE PERFORMED BY THE WATER DIVISION.
6. SERVICE TAPS GREATER THAN 1" REQUIRE A SADDLE AND ARE SUBJECT TO THE APPROVAL OF THE ENGINEERING DIVISION.
7. USE QUICK STYLE COMPRESSION CONNECTIONS FOR ALL SERVICE BRASS.
8. FOR 1" CONNECTIONS TO EXIST. 3/4" CURB STOP CONNECT ADAPTER DIRECTLY TO CURB STOP. MOST EXISTING CURB STOPS REQUIRE 3/4" X 1" FEMALE ADAPTERS FOR NEW ENGLAND STYLE THREADS.
9. ALL CONNECTIONS TO EXIST. CURB STOPS SHALL REPLACE SERVICE BOXES IF NOT BUFFALO STYLE.
10. WATER SERVICE SHALL INCLUDE A BALL VALVE WITH COMPRESSION FITTING JUST BEFORE METER.

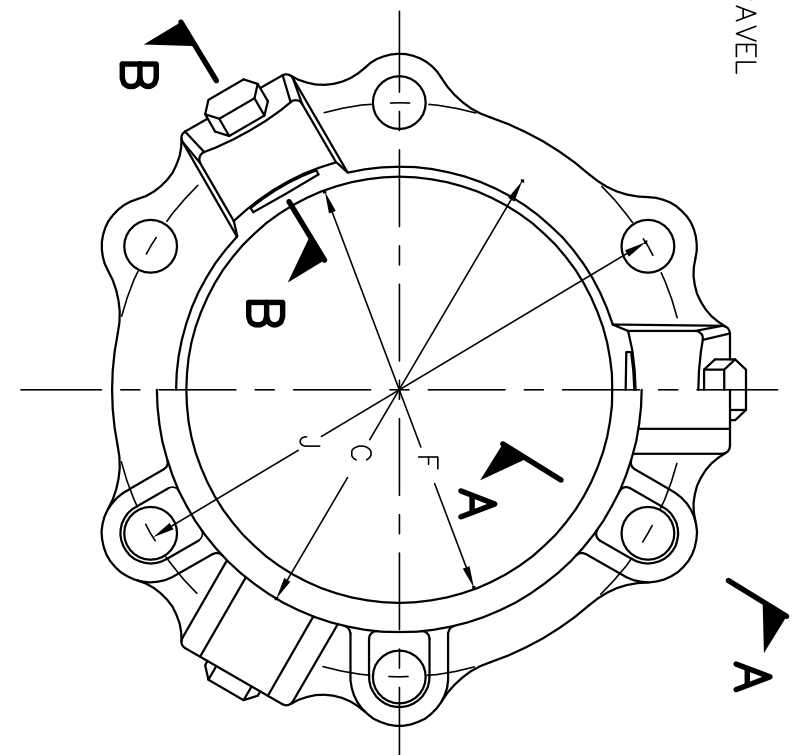
WATER SERVICE CONNECTION 2" AND SMALLER



TYPICAL HYDRANT ASSEMBLY WITH DRAIN

NOTES:

1. SIZES 3" THROUGH 24" ARE LISTED BY UNDERWRITERS' LABORATORIES, INC. CATEGORY HK4F FOR USE ON DUCTILE IRON PIPE. THE LISTING FILE NUMBER IS EX2836.
2. SIZES 3" THROUGH 12" ARE FACTORY WELD APPROVED.
3. GLAND AND COLLAR BOLTS ARE MADE OF DUCTILE IRON CONFORMING TO ASTM A536-80. WEDGES GLAND CONFORMS TO THE APPLICABLE REQUIREMENTS OF ANSI/AWWA K2.111/6.111 AND ANSI/AWWA C153/A21.53 OF THE LATEST REVISION.
4. FOR TEST PRESSURES ABOVE THE RATED PRESSURES SHOWN, CONSULT THE ENGINEERING DEPARTMENT OF EBAA IRON INC. FOR RECOMMENDATIONS. EBAA-SEAL GASKETS ARE PROVIDED WITH THE 30" THROUGH 48" MEGALUGS. ALSO PROVIDED WITH THE 42" AND 48" SIZES ARE EXTRA LENGTH T-BOLTS. THE GASKETS AND BOLTS ARE PROVIDED TO FACILITATE EASIER ASSEMBLY OF THE MECHANICAL JOINT AND ARE REQUIRED ON THE ABOVE REFERENCED SIZES TO OBTAIN THE LISTED PRESSURE RATINGS WITH A 2:1 SAFETY FACTOR.



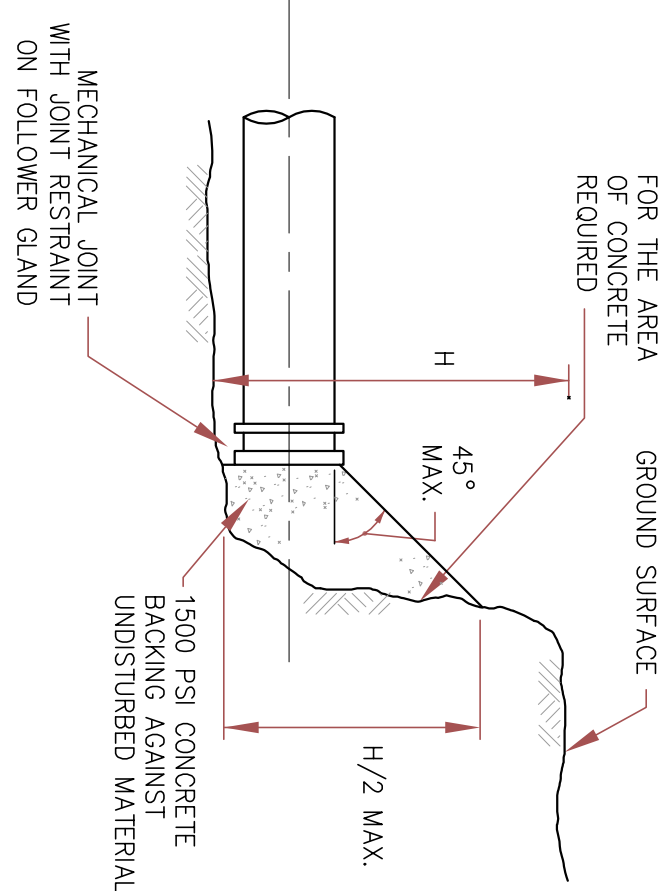
SERIES	PRESSURE RATING	C	D	F	J	M	X	NO. OF WEDGES	NO. OF BOLTS	P	P (W/ NUTS TWISTED OFF)	K2
1103	350	4.84	2.27	4.08	6.19	0.62	3/4	2	4	9.36	9.06	7.69
1104	350	4.82	2.27	4.08	6.19	0.62	7/8	2	4	10.20	9.80	8.12
1108	350	10.17	2.37	9.15	11.75	1.00	7/8	4	6	14.45	13.37	11.57
1110	350	12.22	2.37	11.20	14.00	1.00	7/8	4	6	16.50	15.62	13.37
1112	350	14.32	2.37	13.30	16.25	1.25	7/8	8	8	18.60	17.88	15.37
1114	350	16.40	2.69	15.44	18.75	1.50	7/8	10	10	20.64	20.94	20.25
1116	350	18.50	2.69	17.54	21.00	1.56	7/8	12	12	22.60	22.90	22.50
1118	250	20.60	2.69	19.64	23.25	1.63	7/8	12	12	24.70	25.00	24.75
1120	250	22.70	2.69	21.74	25.50	1.69	7/8	16	16	26.80	27.10	26.85
1122	250	24.80	2.69	23.84	27.75	1.81	7/8	16	16	28.90	29.20	28.95
1124	250	26.90	3.00	25.94	30.00	1.89	1 1/8	20	20	31.00	31.30	31.05
1126	250	29.00	3.20	28.04	32.17	2.05	1 1/8	24	24	33.17	33.47	33.12
1128	250	31.10	3.20	30.14	34.34	2.25	1 1/8	28	28	35.27	35.57	35.12
1130	250	33.20	3.20	32.24	36.48	2.25	1 3/8	32	32	37.37	37.67	37.12
1132	250	35.30	3.20	34.34	38.67	2.25	1 3/8	32	32	39.47	39.77	39.12
1134	250	37.40	3.20	36.48	40.81	2.25	1 3/8	32	32	41.57	41.87	41.12
1136	250	39.50	3.20	38.57	42.95	2.25	1 3/8	32	32	43.67	43.97	43.12
1138	250	41.60	3.20	40.71	45.09	2.25	1 3/8	32	32	45.77	46.07	45.12
1140	250	43.70	3.20	42.85	47.23	2.25	1 3/8	32	32	47.87	48.17	47.12
1142	250	45.79	3.20	44.97	49.37	2.25	1 3/8	32	32	49.97	50.27	49.12
1144	250	47.89	3.20	47.07	51.51	2.25	1 3/8	32	32	52.07	52.37	51.12
1146	250	49.99	3.20	49.17	53.65	2.25	1 3/8	32	32	54.17	54.47	53.12
1148	250	52.09	3.20	51.27	55.79	2.25	1 3/8	32	32	56.27	56.57	55.12
1150	250	54.19	3.20	53.37	57.93	2.25	1 3/8	32	32	58.37	58.67	57.12

MEGALUG DETAIL

N.T.S.

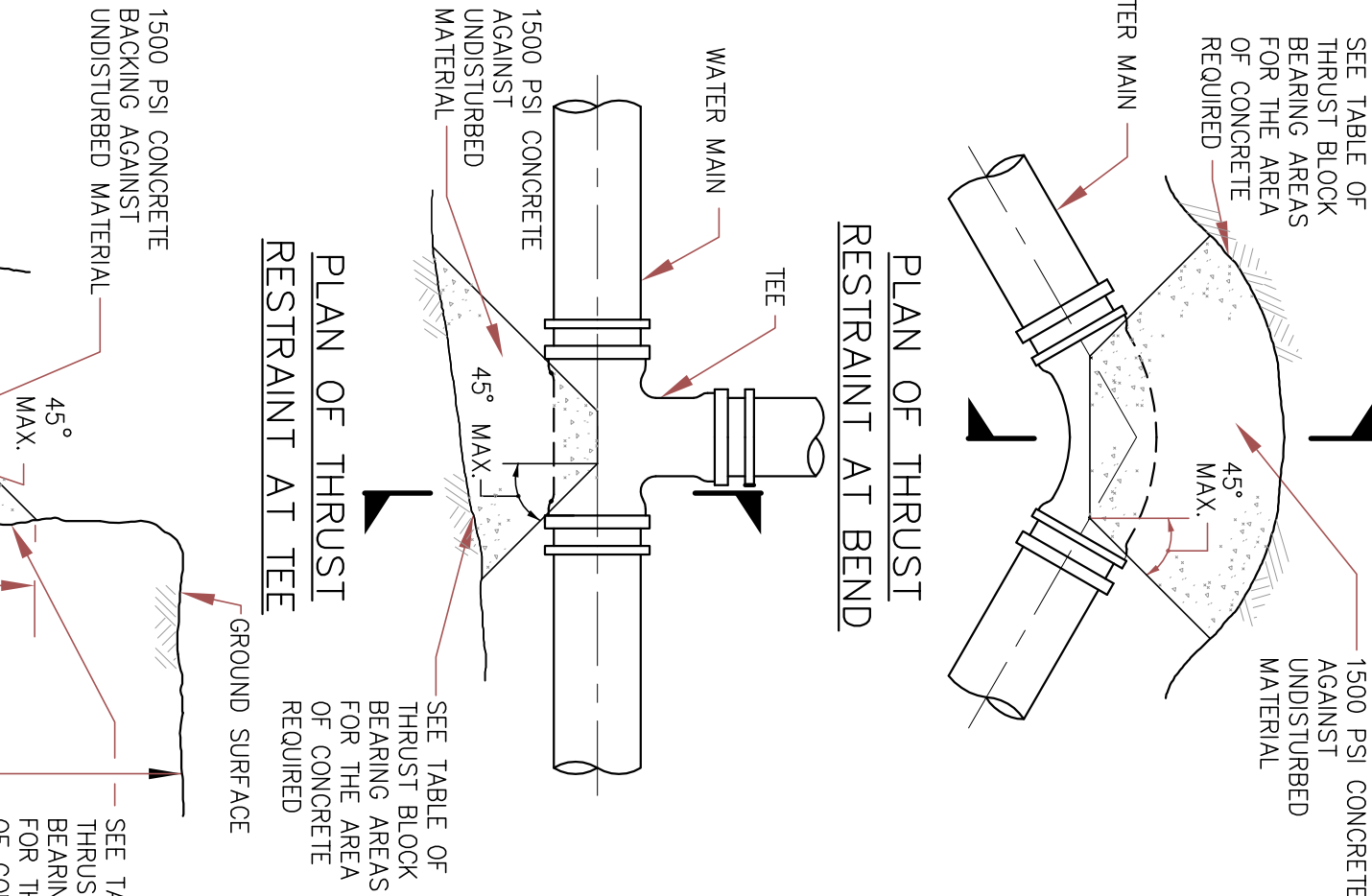
BEARING AREA FOR VARIOUS DIAMETERS	4"	6"	8"	10"	12"	16"
1/32 BEND (11 1/4")	2 S.F.	2 S.F.	2 S.F.	2 S.F.	3 S.F.	5 S.F.
1/16 BEND (22 1/2")	2 S.F.	2 S.F.	3 S.F.	3 S.F.	4 S.F.	5 S.F.
1/8 BEND (45")	2 S.F.	2 S.F.	3 S.F.	5 S.F.	7 S.F.	12 S.F.
1/4 BEND (90")	3 S.F.	3 S.F.	6 S.F.	9 S.F.	12 S.F.	21 S.F.
TEE/PLUG	2 S.F.	3 S.F.	4 S.F.	6 S.F.	9 S.F.	16 S.F.

1. ALL ELBOWS, BENDS, AND CAPS SHALL BE BRACED WITH CONCRETE THRUST BLOCKS. JOINTS SHALL NOT BE ENCASED IN CONCRETE.
2. BEARING AREA IS AREA OF CONCRETE IN CONTACT WITH WALL OF TRENCH (H X L).
3. HEIGHT AND LENGTH AS REQUIRED TO OBTAIN BEARING AREA SHOWN IN THE TABLE W/ H APPROX. 1/2 L.
4. THRUST BLOCK SIZING BASED ON 150 PSI WATER PRESSURE AND 2000 PSI SOIL BEARING CAPACITY.



THRUST RESTRAINT AT PLUG

N.T.S.



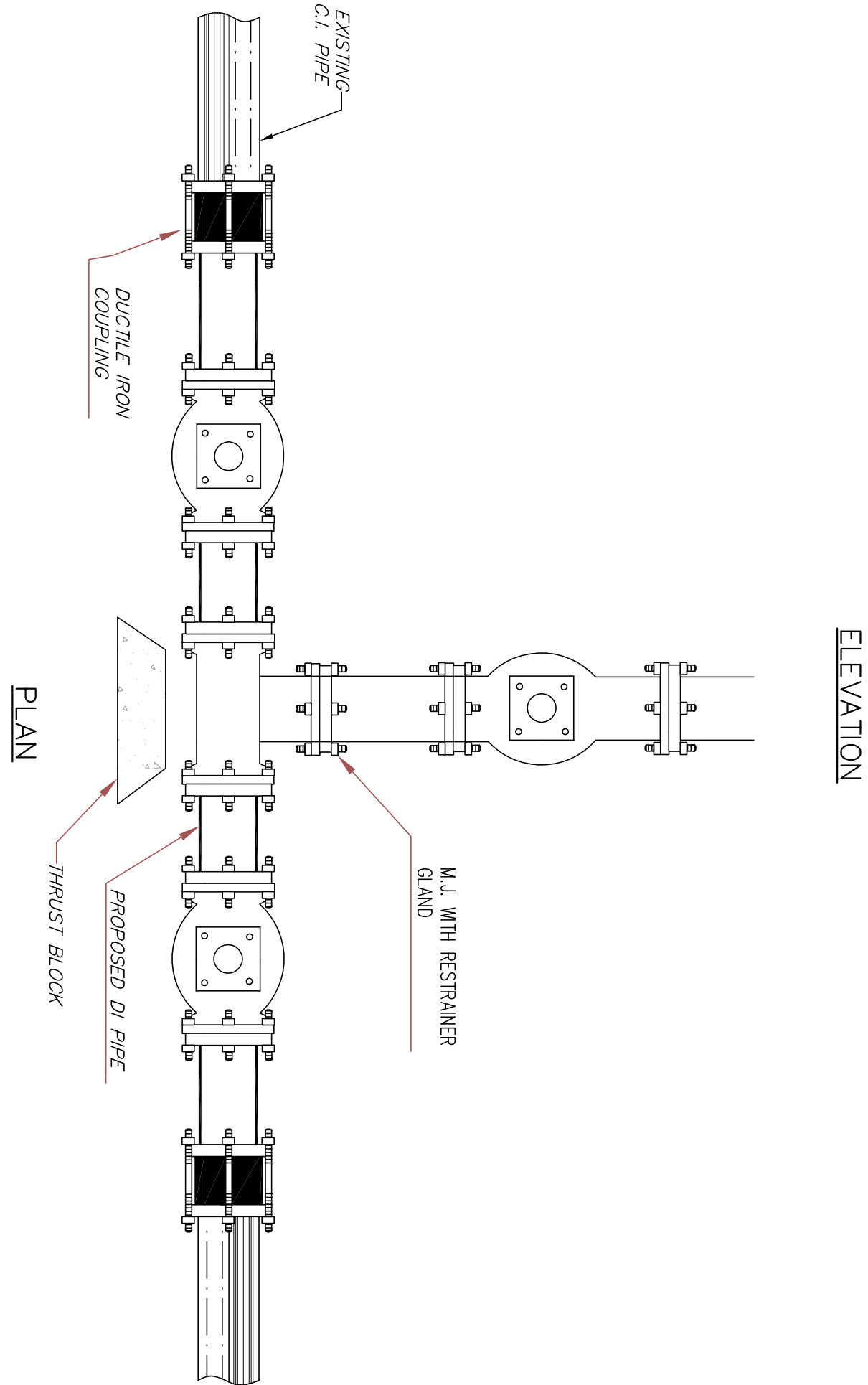
PLAN OF THRUST RESTRAINT AT TEE

THRUST BLOCK SECTION

THRUST RESTRAINT AT FITTINGS

N.T.S.

2-1.25 (REV. 12-15-94)



TRIPLE GATE CUT IN WATER MAIN CONNECTION

NOTE: GATE VALVES TO BE M.L. RESULTANT WEDGE, DUCTILE IRON, OPEN RIGHT MEETING AWWA C-509, C-153, C-509 & C-550

NOTES:

1. TRENCHES MAY BE EXCAVATED WIDER THAN TRENCH WIDTH W₈ ABOVE THE LINE OF NARROW TRENCH LIMIT.
2. EXCAVATED BEYOND THE TRENCH WIDTH LIMIT THE TRENCH SHALL NOT BE ABOVE THE LINE OF NARROW TRENCH LIMIT.
3. ABOVE THE TOP OF THE TRENCH SHALL BE INDICATED OR DIRECTED.
4. COVER AT ANY POINT SHALL BE DEFINED AS THE VERTICAL DISTANCE FROM THE UPPERMOST POINT OF THE PIPE TO A LINE WHICH CONNECTS THE SURFACE OF THE UNDERSIDE OF THE PIPE TO THE TRENCH AND IS AT RIGHT ANGLES TO THE DIRECTION OF THE PIPE.
5. WHERE FUTURE EXTENSION OF A PLUGGED PIPE OR A PLUGGED BRANCH WILL BE REQUIRED, THE TRENCH SHALL BE EXTENDED TO THE POINT OF FUTURE BRANCH.
6. BANK RUN GRAVEL OR EXCAVATED MATERIAL THAT MEETS SPEC. SECTION 02224 SHALL BE INSTALLED ABOVE THE LINE OF NARROW TRENCH LIMIT.
7. WHERE SPECIFIED, CONTROLLED DENSITY FILL WILL BE USED FROM TOP OF SCREENED GRAVEL TO BOTTOM OF BITUMINOUS PAVEMENT.

WATER MAIN TRENCH SECTION

NOT TO SCALE

	DATE	REVISION	BY
Town of Lexington ENGINEERING DIVISION	DRAWN BY: C.Q.	DATE: APRIL 2012	SCALE: AS NOTED
	DESIGNED BY: D.C.	CHECKED BY:	
STANDARD DETAILS WATER	APPROVED BY:		
	CONTRACT NO. 12-71	SHEET NO. 7 OF 11	